

WHAT IS CLAIMED IS:

- 1           1. A magnetic read/write apparatus comprising:  
2           a recording medium; and  
3           a head for writing/reading data to/from each sector on said recording medium;  
4           wherein said magnetic read/write apparatus further comprises:  
5           write inhibit slice setting device for, when data is written to said  
6           recording medium, setting a write inhibit slice for said each sector based on a  
7           recording state of said each sector on said recording medium.
- 1           2. The magnetic read/write apparatus as claimed in claim 1, wherein said write  
2           inhibit slice setting device sets different write inhibit slices (one each) on a left side and a  
3           right side of said each sector.
- 1           3. The magnetic read/write apparatus as claimed in claim 1, wherein said write  
2           inhibit slice setting device sets said write inhibit slice for said each sector based on at least  
3           one of information on a write order of said each sector, position information on neighboring  
4           sectors, information on a degree of proximity erasure by said head, and information on rewrite  
5           counts of said neighboring sectors.
- 1           4. The magnetic read/write apparatus as claimed in claim 3, further  
2           comprising:  
3           a write inhibit slice setting table for storing write inhibit slice setting values  
4           established based on said information on said write order of said each sector and said position  
5           information on said neighboring sectors,  
6           wherein said write inhibit slice setting device sets said write inhibit slice for  
7           said each sector based on said information stored in said write inhibit slice setting table.
- 1           5. The magnetic read/write apparatus as claimed in claim 3, further  
2           comprising:  
3           memory device for storing at least one of said information on said write order  
4           of said each sector, said position information on said neighboring sectors, said information on  
5           said degree of proximity erasure by said head, and said information on said rewrite counts of  
6           said neighboring sectors,

7 wherein said write inhibit slice setting device sets said write inhibit slice for  
8 said each sector based on said information stored in said memory device.

1 6. The magnetic read/write apparatus as claimed in claim 5, wherein after  
2 setting said write inhibit slice for said each sector, said write inhibit slice setting device  
3 rewrites said information on said write order of said each sector stored in said memory device.

1 7. The magnetic read/write apparatus as claimed in claim 3, wherein:  
2 a recording area is provided on said recording medium to store at least one of  
3 said information on said write order of said each sector, said position information on said  
4 neighboring sectors, said information on said degree of proximity erasure by said head, and  
5 said information on said rewrite counts of said neighboring sectors; and  
6 said write inhibit slice setting device reads said recording area on said  
7 recording medium and sets said write inhibit slice for said each sector based on said read  
8 information.

1 8. The magnetic read/write apparatus as claimed in claim 7, wherein said  
2 recording area is provided within said each sector or a management area on said recording  
3 medium.

1 9. A magnetic read/write apparatus comprising:  
2 a recording medium; and  
3 a head for writing/reading data to/from each sector on said recording medium;  
4 wherein said magnetic read/write apparatus further comprises rewriting device  
5 for, when data is written to said recording medium, performing steps of:  
6 counting the number of write operations performed on said each sector;  
7 storing said information said number of write operations performed on  
8 said each sector;  
9 if said number of write operations performed on a sector is larger than a  
10 predetermined value, reading data from neighboring sectors on one or both sides of  
11 said sector; and  
12 rewriting said sector with said read data.

1                   10. A magnetic read/write apparatus comprising:  
2                   a recording medium; and  
3                   a plurality of heads for writing/reading data to/from each sector on said  
4 recording medium;  
5                   wherein said magnetic read/write apparatus further comprises write inhibit  
6 slice setting device for performing steps of:  
7                   writing a write inhibit slice correction value for each head beforehand;  
8                   and  
9                   when data is written to said recording medium, setting a write inhibit  
10 slice for said each sector based on a recording state of said each sector on said  
11 recording medium and said write inhibit slice correction value for said each head.